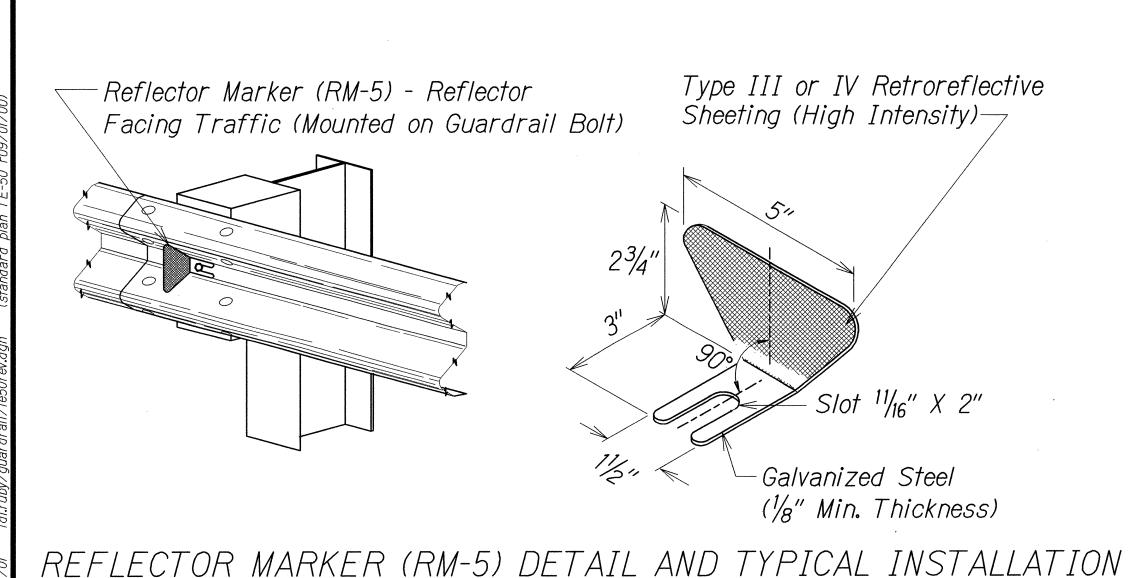


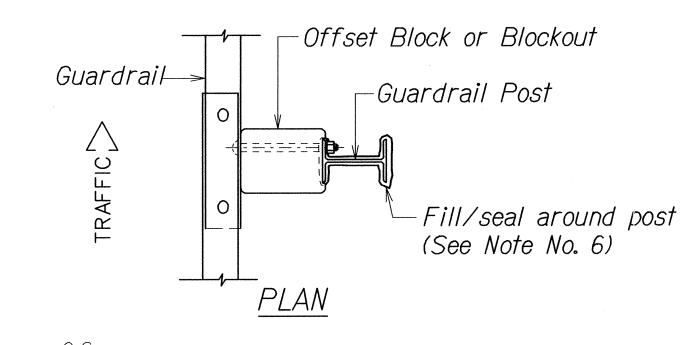
STEEL POST AND BLOCK DETAIL

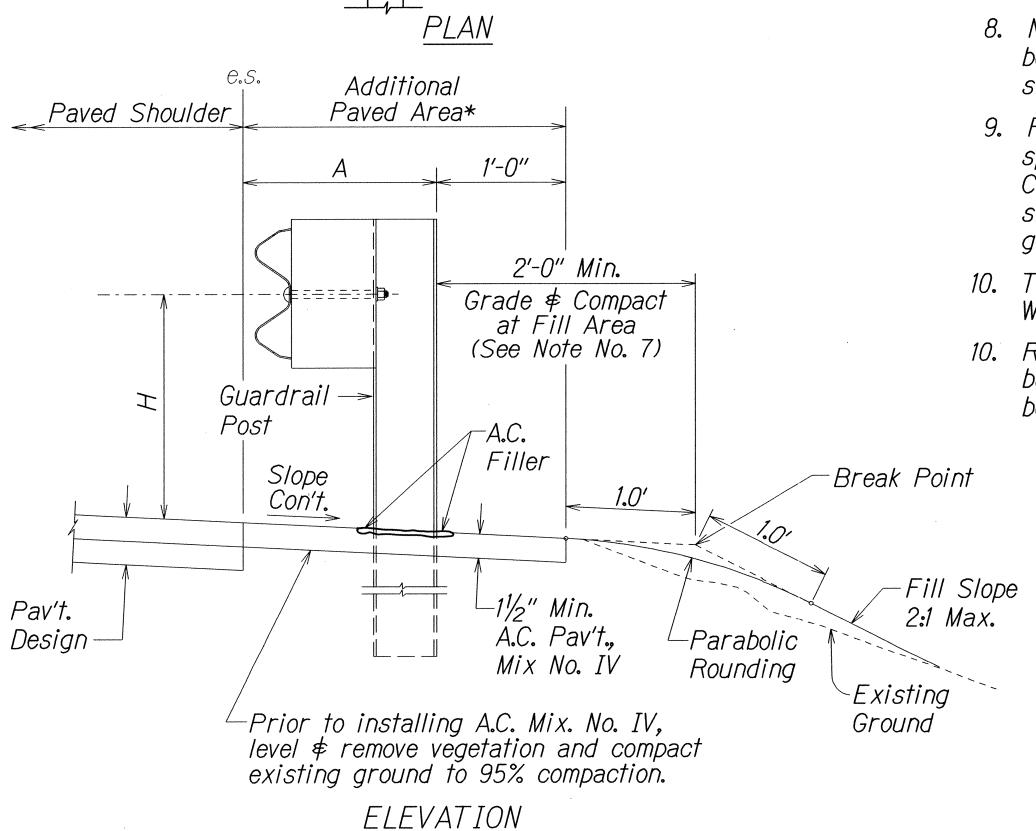


SURVET PLOTTE
DRAWN BY X
TRACED BY
DESIGNED BY X
QUANTITIES BY
CHECKED BY

3/4" hole All exterior corners 1/2" radius RECYCLED POLYETHYLENE

OFFSET BLOCK (TYPE II)





GENERAL NOTES

FED. ROAD DIST. NO. STATE YEAR HAW. NH-030-1(053) 2015

- 1. All hardware, posts and fasteners shall be hot-dip zinc coated galvanized after fabrication. No punching, drilling or cutting will be permitted after galvanizing.
- 2. Where conditions require, special post lengths in increments of 6 inches may be specified.
- 3. All fasteners, posts, and rail elements (i.e. FBB03, PWE01, RWM02b, etc.) shall conform to the latest edition and amendments of "A Guide to Standardized Highway Barrier Rail Hardware", a report prepared and approved by the AASHTO-AGC-ARTBA Joint Cooperative Committee, Subcommittee On New Highway Materials, Task Force 13 Report. Dimensions of fastners, posts and rail elements have been converted from metric units into their present form.
- 4. The Recycled Plastic Block or Offset Block shall be approved by the State.
- 5. All new guardrail areas, shoulder shall be grubbed, graded and paved as shown on the plan. Paved shoulder width shall be determined in the field and approved by the Engineer. This work will not be paid separately but shall be made under Item 401.0100 A.C. Pavement, Mix IV.
- 6. After the guardrail posts are installed in the paved area, the Contractor shall fill/seal around each guardrail post and all cracks in the paved area caused during the guardrail post installation. If required by the inspector/engineer, the Contractor shall tamper the paved area around the guardrail post prior to filling/sealing. All costs associated with this work shall not be paid for separately, but shall be considered incidental to the various guardrail items.
- 7. When standards for the fill slope area cannot be met, a site specific, engineer approved design may be used.
- 8. New A.C. pavement at guardrails shall extend 6 feet longitudinally beyond terminal ends. This work will not be paid separately but shall be made under Item No. 401.0100 A.C. Pavement, Mix IV.
- 9. Reflector Markers (RM-5) mounted on guardrails shall be spaced every 25 feet. Spacing of RM-5's on Horizontal Curves shall comply with Table III-1 of the MUTCD. RM-5's shall not be installed on Terminal Sections. RM-5 on new quardrail shall be incidental to guardrail pay item.
- 10. Type G end terminals shall be paid for under Strong Post W-Beam Guardrail.
- 10. Removed guardrails and post shall be delivered to State Highways baseyard, Kahului. This work shall not be paid separately but shall be considered incidental to guardrail pay items.

GUARDRAIL TYPE	DIMENSION	
	Н	Α
Strong Post W-Beam	1'-95/8"	1′-6′′
Strong Post Rubrail (W-Beam)	2'-0"	1′-6″
Modified or Strong Post Thrie Beam	2'-0"	2'-0"

DEPARTMENT OF TRANSPORTATION GUARDRAIL DETAILS & NOTES HONOAPIILANI HIGHWAY GUARDRAIL

♦ SHOULDER IMPROVEMENTS Vicinity of Ukumehame M.P. 13.2 to M.P. 13.3 Federal-Aid Project No. NH-030-1(053)

Scale: NTS

Date: August, 2014 SHEET No. 1 OF 5 SHEETS

TYPICAL GUARDRAIL INSTALLATION

